

천세영, FACEBOOK/CHOOJADO
스마트교육학회장, 충남대학교학과교수
교육개혁포럼, 2015.11.20

지속가능발전교육(EDUCATION FOR
SUSTAINABLE DEVELOPMENT)을 위한
스마트교육 전략 제안



Sustainable Development Goals for Education



Sustainable Development Goal 4 - “Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all”

With the stand-alone [Goal 4 on education](#) and its related targets, the 2030 Agenda for Sustainable Development recognizes that education is essential for the success of all sustainable development goals (SDGs). Education is also included in goals on health, growth and employment, sustainable consumption and production, and climate change.

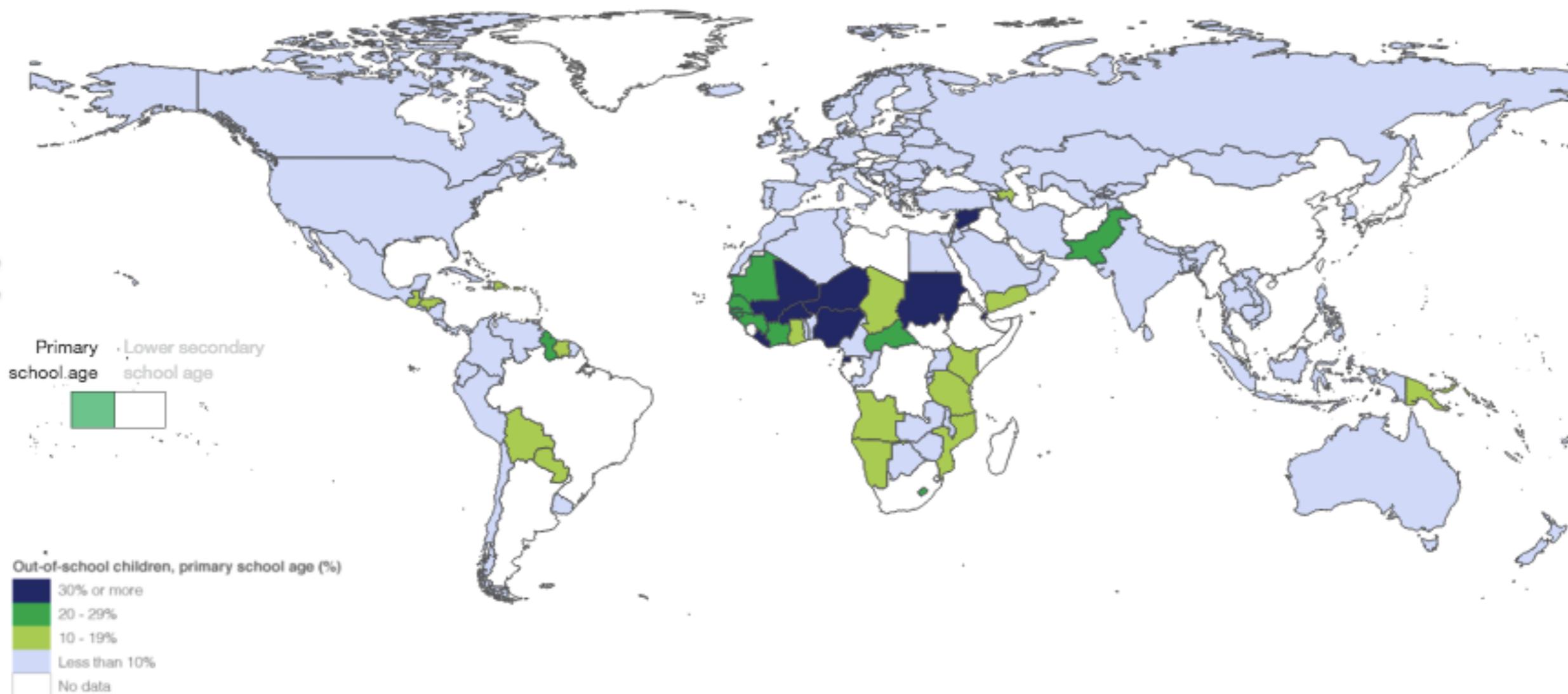


학교밖 어린이, 1,240억명

Target 4.1: By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes

Out-of-School Children

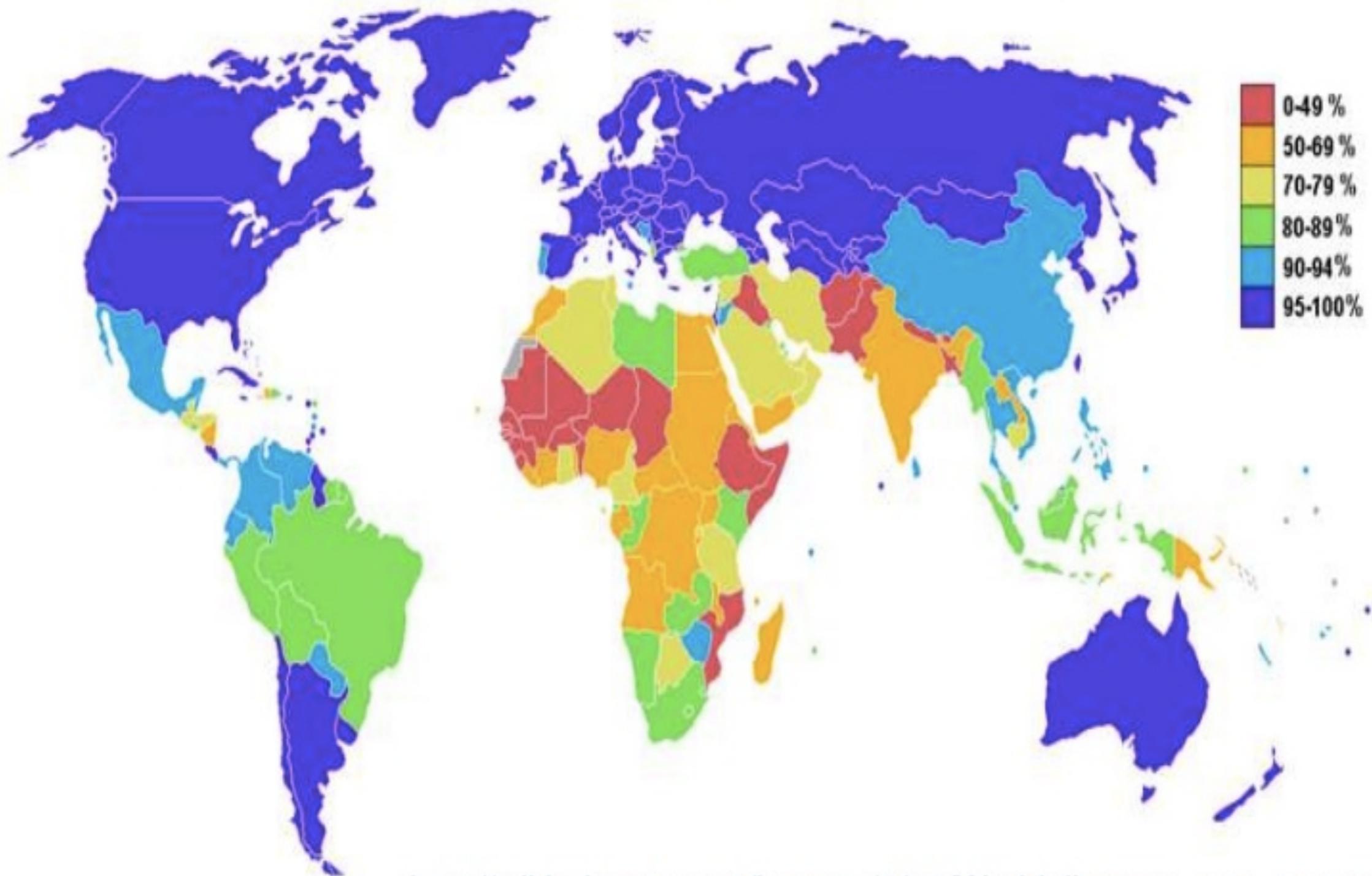
124 million children and adolescents are denied the right to education.



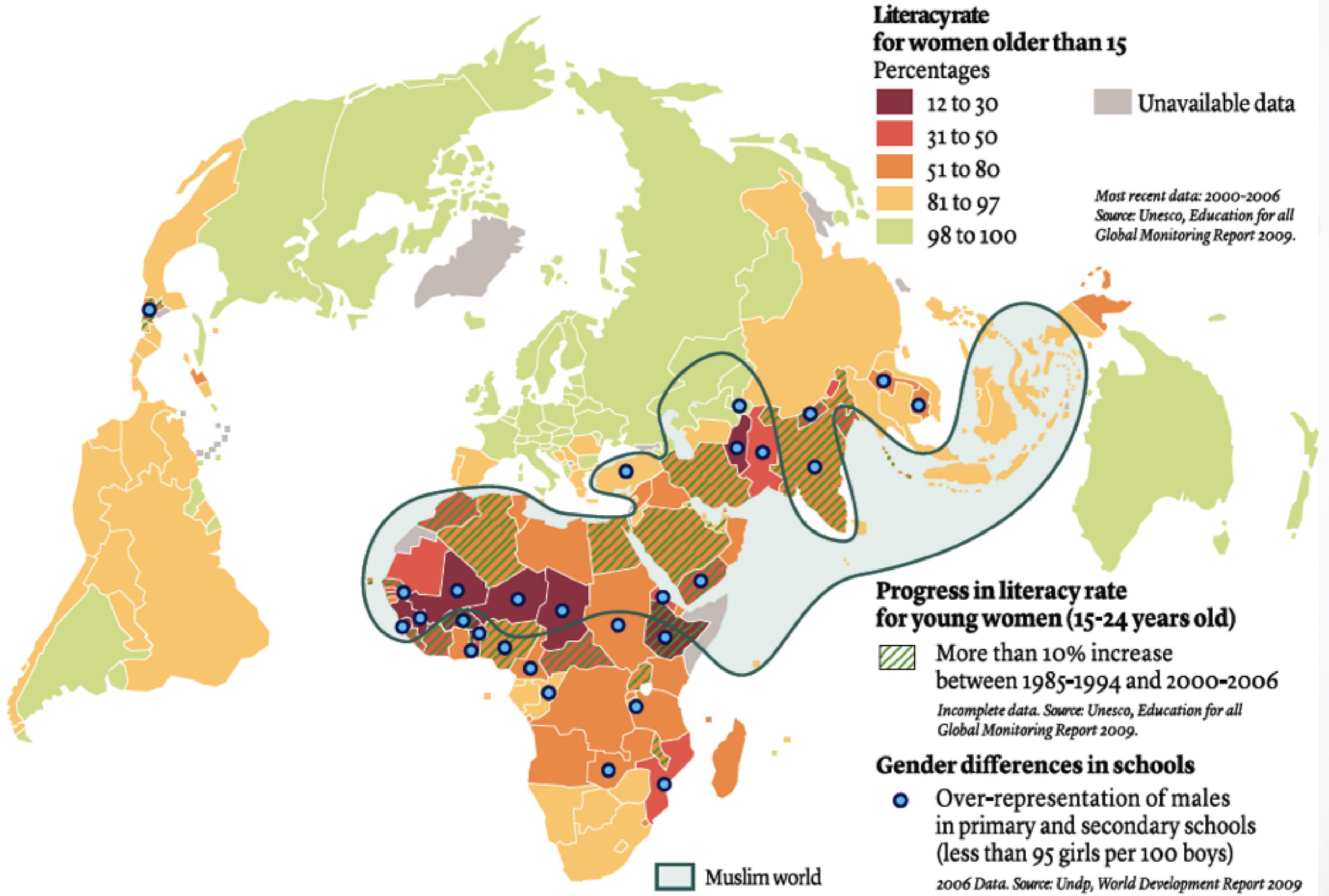
Gloomy Goals: Education vs Literacy

- Jomtien Decade started in 1990:
 - From Literacy for All to Education for All by 2000 (1990-2000 one decade), but delayed again
 - “universal access to basic education by 2015 !”
in 2000 at Dakar WEF
- Six-year basic primary education seems to have reached at least in reports by 2015
- However, 1 in 5 of world population are still illiterate, 2/3 are women

A world map showing the literacy rates



http://wikieducator.org/images/8/82/World_literacy_rate_map.png



Delaying Goals: Incheon Declaration for 2030



Education
2030:

Towards
inclusive and
equitable
quality
education and
lifelong
learning for all

"...we will ensure the provision of 12 years of free, publicly funded, equitable quality primary and secondary education..."

"...urge ...allocating efficiently at least 4 - 6% of Gross Domestic Product and/or at least 15 - 20% of total public expenditure to education..."

A mountain landscape at dusk. In the foreground, a glowing orange tent sits on a rocky ground. In the middle ground, a small stream flows through a valley. In the background, rugged mountains with patches of snow are silhouetted against a sky with soft purple and blue hues. The overall scene is serene and contemplative.

EDUCATION

IS

THE PROBLEM ?

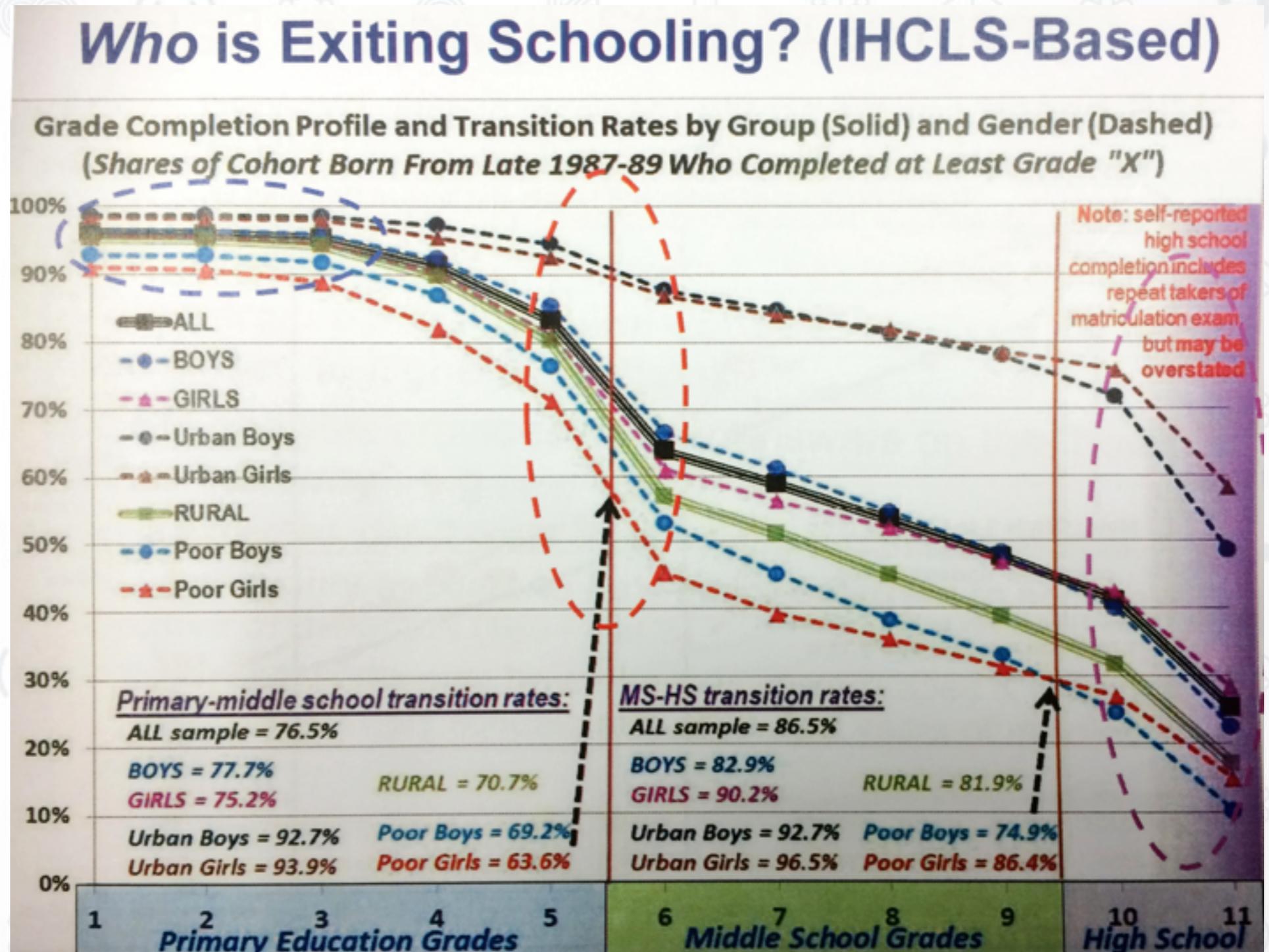
A mountain landscape at dusk. In the foreground, a glowing orange tent sits on a rocky ground. In the middle ground, a small stream flows through a valley. In the background, a large mountain range is visible under a sky with soft purple and blue hues. The text "CAN READ BUT CANNOT COMPREHEND" is overlaid on the image.

CAN READ
BUT CANNOT
COMPREHEND

One Example: Myanmar Report on Education

British surprised at higher adult literacy in Myanmar than in London when they came in 1890s !

However,,,,,,



From Myanmar maybe to all others

Lack of interest get bigger reason as higher grade.

Matriculation test at grade 12 in English and Science and Maths taught in English

Reasons for Dropout, Per IHCLS & CESR SES School Survey

Teacher-reported Reasons for Middle/High School Student Dropout Compared to IHCLS Responses (by Parents)

	IHCLS RESPONSES (PARENTS)						CESR SECONDARY SCHOOL SURVEY (TEACHER RESPONSES)	
	No primary (1)	Primary dropout (2)	Non-transition to MS (3)	MS dropout (4)	Non-transition to HS (5)	Incomplete or failed HS (6)	Dropout during MS or HS	
							Top reason (7)	Among top 3 reasons (8)
Share of cohort	3.8%	12.7%	19.5%	15.8%	6.2%	15.1%		
Cumulative share of cohort	3.8%	16.5%	36.0%	51.8%	58.0%	73.2%		
Share of completers not transitioning			23.4%		12.8%			
Reasons for non-entry, dropout or exit:								
Costs not affordable	49.0%	41.7%	32.5%	24.5%	26.1%	16.8%	52.0%	54.3%
Personal illness	7.7%	2.1%	1.8%	1.9%	0.4%	2.1%	5.0%	4.9%
Lack of interest	25.9%	26.7%	22.3%	33.1%	35.2%	49.0%	34.1%	63.7%
Got married/pregnant	0.0%	0.4%	1.8%	0.4%	1.0%	3.0%	0.2%	4.3%
Care for family	6.0%	9.6%	10.9%	10.6%	9.4%	6.7%	1.8%	13.1%
Agricultural work	6.8%	10.9%	19.8%	17.2%	16.4%	10.2%	2.9%	39.6%
Other (non-ag.) work	0.1%	6.5%	6.2%	8.8%	8.1%	9.7%	1.6%	15.3%
School too far	1.6%	0.9%	3.6%	2.1%	3.1%	1.3%	0.2%	2.5%
No teacher	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	4.1%
No school supplies	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.5%
No clothing/shoes	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	3.5%
Bad weather	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	23.5%
Other reasons/not reported	3.0%	1.1%	0.8%	1.4%	0.2%	1.2%	0.5%	39.4%
Number of observations	253	691	1029	885	356	837	5,416	5742

- IHCLS (parent responses): "lack of interest" overtakes costs as lead reason for non-completion of SES
- SES school survey (teacher responses): close correspondence in ordering, w/ "lack of interest" most likely to be cited as 1 of top 3 reasons
- "Good news": teachers' recognition of weak quality may be an asset in curriculum reform

Secrets of Korean Success

- Hangeul
- Chinese character and translated modern/world knowledge
- Hands with private sector for meeting social demand of education
- And Many other unknown secrets.....
- One quiz of 'no matriculation test' ?
 - easier test for reducing study load
 - wider door toward upper level education

A mountain landscape at dusk or dawn. The sky is a mix of deep blue and purple, with some light rays or clouds catching the low sun. In the foreground, a bright orange tent is illuminated from within, casting a warm glow. The tent is pitched on a rocky, uneven ground. In the background, there are rugged mountains with patches of snow or light-colored rock. A small stream or river flows through the valley between the mountains.

WE NEED

A

DISRUPTIVE SOLUTION!

**"THE HUMAN HISTORY
OF TECHNOLOGY"**

A photograph of a mountain landscape at twilight. In the foreground, a glowing orange tent is pitched on a rocky ground. The middle ground shows a calm lake reflecting the sky. The background features rugged mountains with patches of snow under a sky with soft purple and blue hues. The text "첫 번째 만남: 글자" is overlaid in the center.

첫 번째 만남: 글자

청각장애와 시각장애 중 누가 더 힘들까요?



위대한 글자: 쑤기문자와 훈민정음



훈민정음
나랏말싸미 등궤에 달아문쑤
와로서르스 못디아니 홀씨이
런전츄로어린뵙성이니르르고
저홍배이셔도마춤내제브들
시러퍼디몬홍노미하니라내
이롤위후야어옛비너겨새로
스믈여뵙쑤롤뵙궤노니사룸

훈민정음의 위대함

1. 훈민정음은 인류최고의 발음기호이다.
 - 15세기 중국어 한자의 발음기호
 - 초성복자음의 신비함을 비롯하여
 - 양성모음과 음성모음의 조화 등등.....
2. 훈민정음은 한국인의 구강발음기관을 발전시켰다
 - 영어를 가장 원음에 가깝게 발음할 수 있는 한국인들
 - "아이는 엄마의 입술움직임을 보고 말을 배운다!"
3. 훈민정음은 한국교육기적의 원천이다.
 - 해방 10년만의 문맹퇴치 기적
 - 글자를 배움이 학습의 시작이다

子曰 弟子入則孝하고 出則則弟하며 謹而信하며
汎愛衆호되 而親仁이니 行有餘力이어든 則以學文이니라.

A photograph of a glowing orange tent pitched on a rocky shore next to a small pond in a snowy mountain landscape at twilight. The sky is a mix of deep blue and purple, with some light rays visible. The mountains in the background are rugged and partially covered in snow. The tent is the central focus, emitting a warm light that contrasts with the cool tones of the environment.

두 번째 만남: 종이

코란의 기적: 종이와의 만남



한국인보다 스마트한 유대인 교육의 원천: “하부루타”, 도대체 무엇일까?



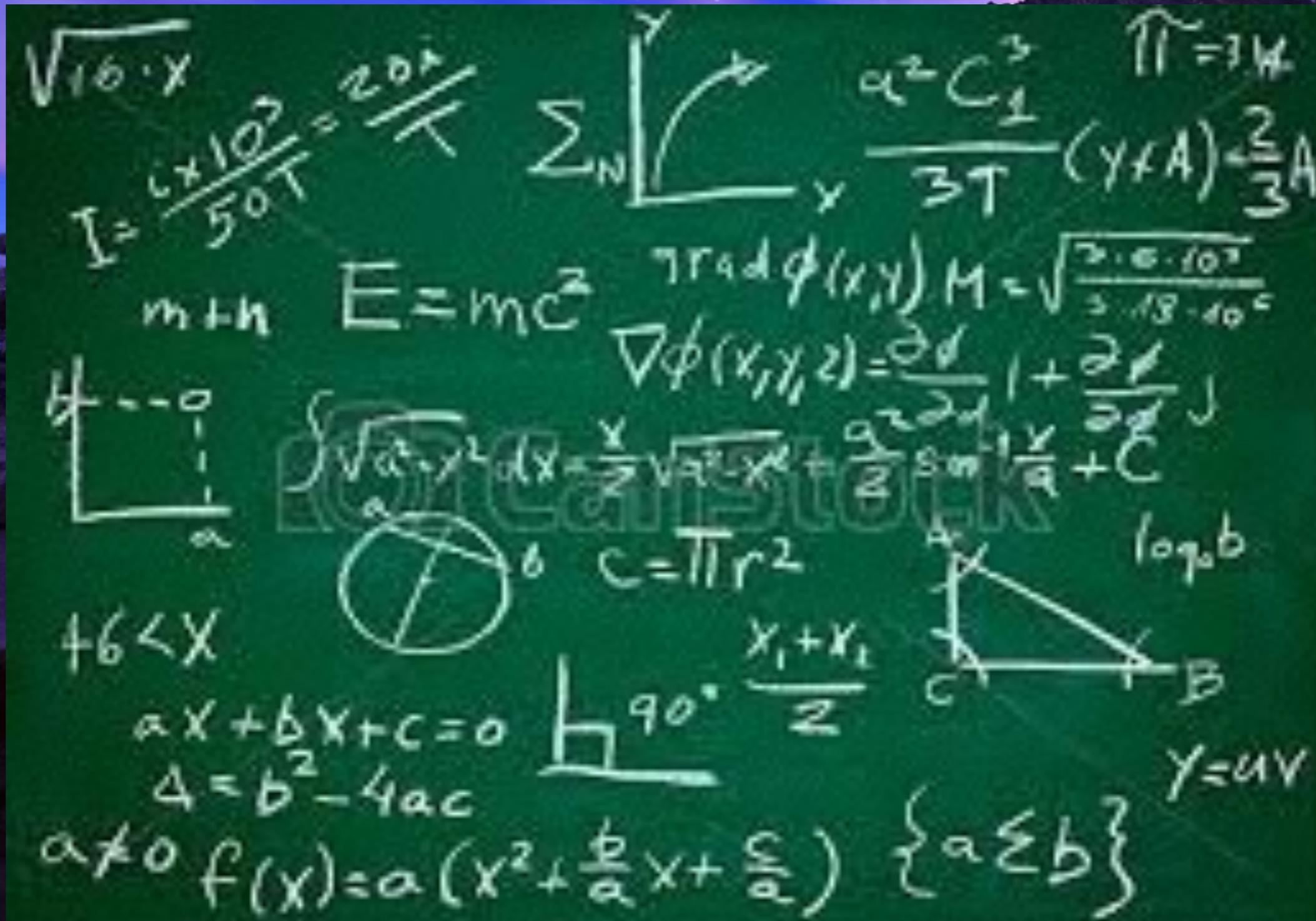
A photograph of a glowing orange tent pitched on a rocky shore next to a small pond in a snowy mountain landscape at night. The tent is illuminated from within, casting a warm orange glow. The surrounding environment is dark, with snow-covered ground and mountains in the background. The sky is a deep blue with some light clouds. The text "세번째 만남: 인쇄술" is overlaid in the center of the image.

세번째 만남: 인쇄술

직지와 구텐베르크: 승자는 ?



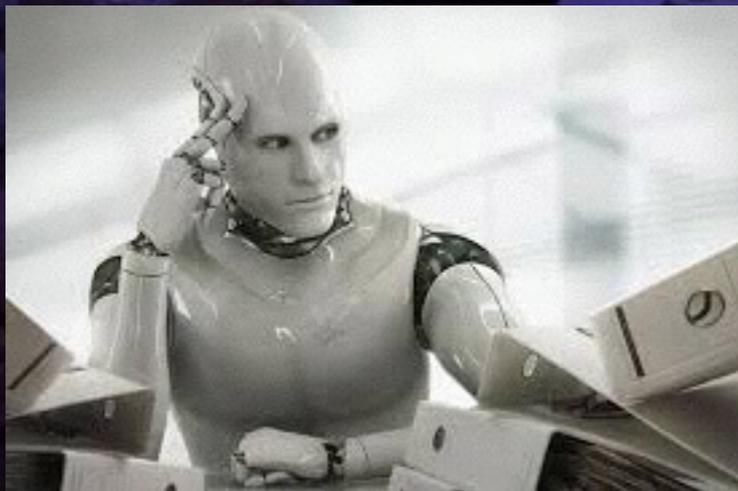
승자는 칠판과 분필이었다 !



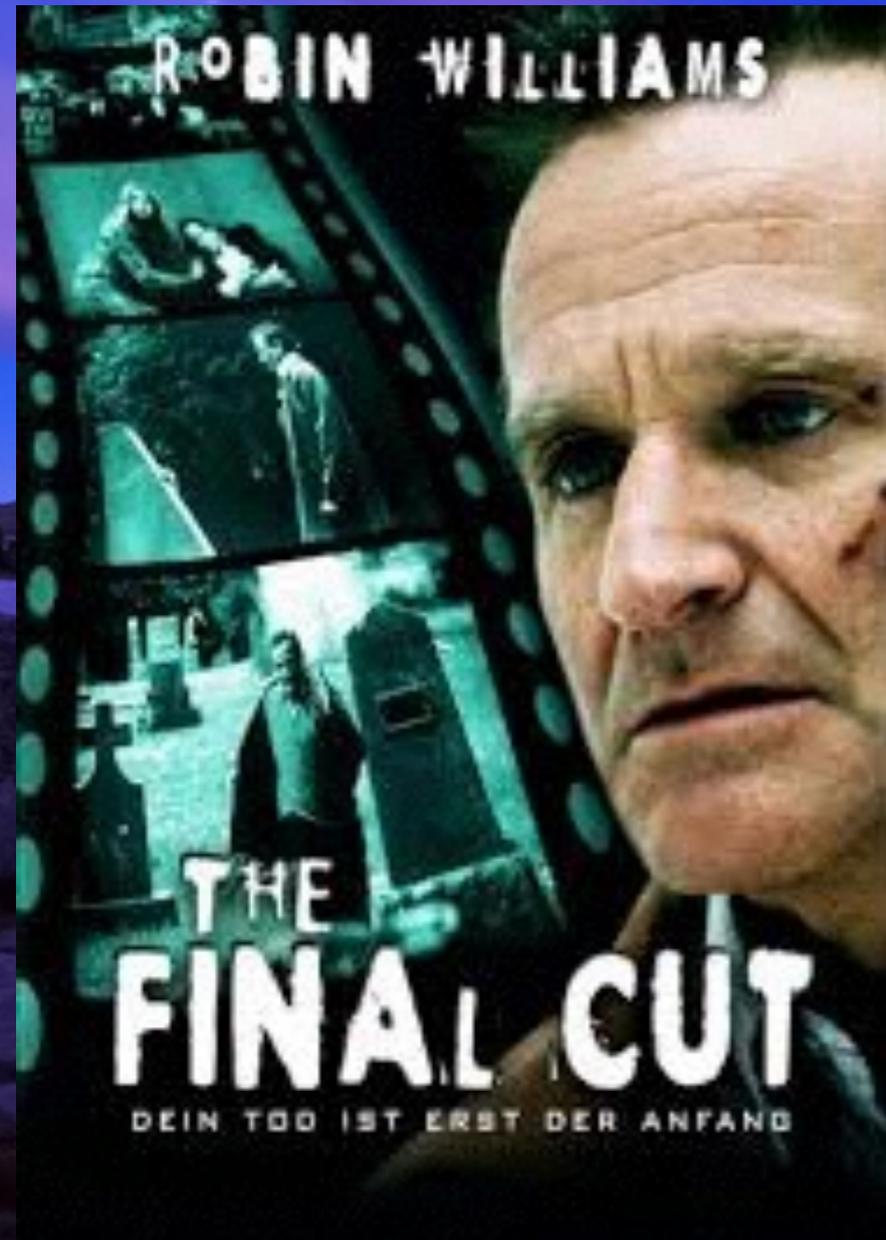
A photograph of a mountain landscape at twilight. In the foreground, a glowing orange tent is pitched on a rocky ground. The middle ground shows a calm lake reflecting the sky. In the background, a large, rugged mountain peak is visible under a sky with soft purple and blue hues. The overall scene is serene and majestic.

오늘의 만남: 컴퓨터와 스마트기술

스마트폰, 구글글라스,,,,,, 어디까지 갈 것인가?



POST-HISTORY: 기록은 더 이상 없다!

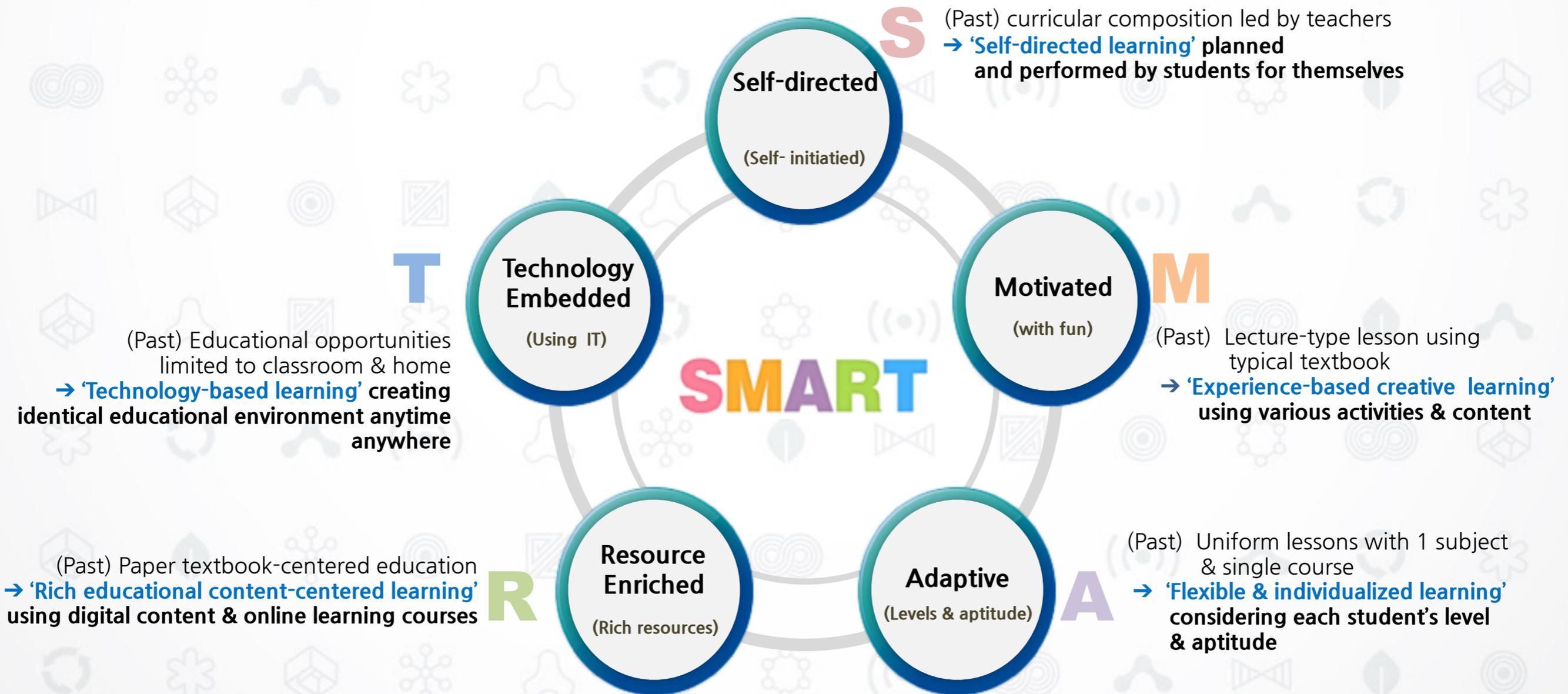


There was one smart challenge, 2011 in Korea !



Definition of SMART Education

SMART Education aims to build an intelligent customized learning system for strengthening competencies of **learners in the 21st century** and to be a driving force for innovating educational system, including educational environment, content & methods, and assessment



The image is a movie poster for "E.T. the Extra-Terrestrial". It features a large, bright blue moon in the background. In the upper right, a silhouette of a person riding a bicycle is visible. In the lower center, a small figure of a child is being held by a large, red, alien hand. At the bottom, the text "A STEVEN SPIELBERG FILM" is written in small letters, and the title "E.T." is written in large, white, stylized letters.

스마트교육: ET와의 대화

A STEVEN SPIELBERG FILM

E.T.

Some Suggestions...

1. Top priority on learning efficacy : “learning/literacy is the goal, while education is the technology/institution”
2. Mother tongue based education first, but recognition of its distance from world knowledge and skill
3. Basic literacy of 3Rs based on Letter and number are not the only way of learning/literacy/education
4. ICT/smart media must be adopted as the disrupted solution to solve the global illiteracy
5. and let us join.....

A photograph of a mountain landscape at night. In the foreground, a glowing orange tent is pitched on a rocky ground. The tent's light illuminates the surrounding rocks. In the middle ground, there is a small, dark pool of water reflecting the sky. The background features rugged, snow-dusted mountains under a dark blue and purple sky with faint stars. The overall scene is serene and atmospheric.

WHAT WE CAN DO ?

Some Best Practices...

1. http://www.ted.com/talks/sugata_mitra_the_child_driven_education
2. http://www.ted.com/talks/conrad_wolfram_teaching_kids_real_math_with_computers
3. http://www.ted.com/talks/shukla_bose_teaching_one_child_at_a_time
4. http://www.smarteducation.or.kr/index.php?document_srl=162405&mid=board_aRgJ18
5. <http://oer.moeys.gov.kh>

Sugata Mitra:
The child-driven education
TEDGlobal 2010 · 17:13 · Filmed Jul 2010
43 subtitle languages
View interactive transcript

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2,231,295 Total views

Share this talk and track your influence!

Education scientist Sugata Mitra tackles one of the greatest problems of education — the best teachers and schools don't exist where they're needed most. In a series of real-life experiments from New Delhi to South Africa to Italy, he gave kids self-supervised access to the web and saw results that could revolutionize how we think about teaching.

www.ted.com/talks/sugata_mitra_the_child_driven_education#

TED Talks are free thanks to support from



Conrad Wolfram:

Teaching kids real math with computers

TEDGlobal 2010 · 17:19 · Filmed Jul 2010

32 subtitle languages

View interactive transcript

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1,321,476 Total views

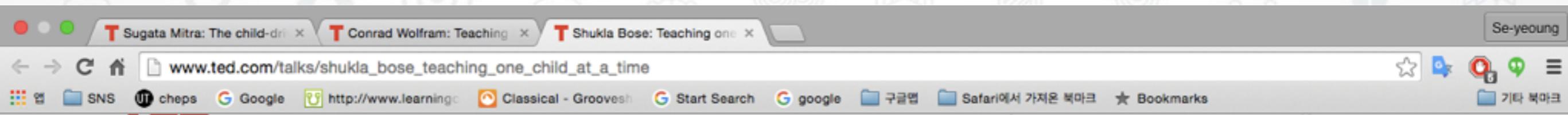
Share this talk and track your influence!

From rockets to stock markets, many of humanity's most thrilling creations are powered by math. So why do kids lose interest in it? Conrad Wolfram says the part of math we teach — calculation by hand — isn't just tedious, it's mostly irrelevant to real mathematics and the real world.

TED Talks are free thanks to support from



1. http://www.ted.com/talks/shukla_bose_teaching_one_child_at_a_time



Shukla Bose:

Teaching one child at a time

TEDIndia 2009 · 16:23 · Filmed Nov 2009

32 subtitle languages

View interactive transcript



Watch later



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708,410 Total views

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Educating the poor is more than just a numbers game, says Shukla Bose. She tells the story of her groundbreaking Parikrma Humanity Foundation, which brings hope to India's slums by looking past the daunting statistics and focusing on treating each child as an individual.

TED Talks are free thanks to support from





시간		세션별 발표			
		Track 1	Track 2	Track 3	Track 4
09:30~10:00		등록			
10:00~10:10		개회식(사회자 : 이수철)			
10:10~11:10		기조 강연 : 고석범 신경과 과장, 전 보바스기념병원장 - Move forward! 쉽게 배우고 크게 쓸 수 있는 R 프로그래밍과 손 위에서 느껴보는 소프트웨어교육의 가치			
11:10~11:20		휴식			
오전	11:20~12:20	좌장 : 김현진(온라인) 김혜린 : 모세익 기적을 일흔 거꾸로 교실의 마법	좌장 : 김정일 양현주 : 미국 고등학교의 정보기기를 활용한 과학수업 사례	좌장 : 박종대 윤상현 : 스토리텔링 알고리즘 수업	좌장 : 허민 천세영 : 교육과 기술의 만남
		이준수 : Flipped STEAM 프로그램	김병연 : 장애학생을 위한sw교육	우세철 : HTML5 기반의 Prototype tools의 활용	김지영, 노태근 : 스텔링스 플랫폼을 활용한 팀 프로젝트 문제해결형 수업 모형 사례
		김백균 : Teachers be platform(21세기 교실에 대처하는 선생님의 자세)	김해동 : 비주얼씹링 교육 사례	조나연 : sw 활용 과학동아리 운영	박형주 : 모바일러닝을 활용한 자기주도학습 체제 개발과 적용
12:20~13:10		정식			
13:10~13:20		MOU 체결 : 스마트교육학회, 소프트웨어정책연구소, 한국정보교육학회와 MOU 체결(사회자 : 박근우)			
13:20~14:10		토론회 : 다시 시작하는 스마트교육의 방향 (사회자 : 김미영, 발표자 : 김진숙)			
14:20~14:30		휴식			
		좌장 : 범수군 범수군 : IT-enabled	좌장 : 김치영 이인지 : 2015 대화인교	좌장 : 정영식 이미영 : 건강한 아이가	좌장 : 송은정 이혜수 : 빅블...

공지사항

- 2016 에듀텍 코리아 참가객 사전등록... 2015-11-18 19:43
- 2016 동계 스마트교육 페스티벌 개최... 2015-11-16 15:37
- 2015 하계 페스티벌 참가신청 안내(0... 2015-07-18 13:13
- [TEFF] 세계교육문화포럼발행회 1... 2015-07-13 13:57

스마트교육학회

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- 스마트교육학회
- 스마트교육학회 운영...
- 교육정보지존비위임회
- 교육담당
- Creative Blog 창의블... 2
- 창원의 콘텐츠스쿨 20+
- 저장됨



2015 동계 스마트교육 페스티벌

우리가 살아가는 곳

스마트교육학회 공개 그룹

토론 멤버 이벤트 사진 파일

이 그룹 검색

계시를 작성 사진 / 동영상 추가 설문 만들기 파일 추가

글쓰기...

상단 고정 게시물

김현진 11월 16일 오전 9:21 - 강원도 심학

[2016 동계스마트교육 페스티벌 개최 안내]

안녕하세요? (사)스마트교육학회(회장 천세영)에서는 "다시 시작하는 스마트교육"이라는 주제로 2016 동계스마트교육 페스티벌을 개최합니다. 이번 페스티벌은 EDUTEC KOREA 2016(2016 교육박람회)와 함께 진행됩니다. 스마트교육을 비롯한 미래 교육 방법에 대한 현장 선생님, 연구자, 개발자들의 다양한 사례 발표가 이어질 것입니다. 여러분의 적극 참여 부탁드립니다.

* 일시 : 2015.01.13.(수) 10:00 ~17:00

멤버 3,805명 (새 멤버 59)

이메일로 초대

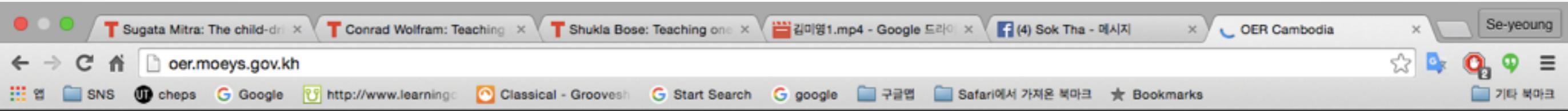
설명 스마트교육 학회입니다.

자세히 보기

요청 (17) 모두 보...

임한균 함께 하는 친구 1명

조상훈



OER CAMBODIA

DOCUMENT TYPE

LEVELS

GRADES

SUBJECTS

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Levels

- Lower Secondary
- Primary Education
- Teacher Training
- Upper Secondary

Grades

- Grade 10
- Grade 11
- Grade 12
- Grade 4

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Welcome to the Open Educational Resources (OER) Cambodia blog

Welcome to the Open Educational Resources (OER) Cambodia blog, managed by Ministry of Education,...

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"English is Fun" is coming soon



Popular Post

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Basic English Language Skills for Trainers and Teachers 1



A Manual for English Language Teacher Trainers 2



"English is Fun" is coming soon 3

- 
- A mountain landscape at dusk or dawn, with a glowing orange tent in the foreground. The sky is a mix of blue and purple, and the mountains are partially covered in snow. The text is overlaid on the image.
- **GLOBAL SOCIETY CALLS FOR KOREAN EDUCATION !**
 - **DISRUPTING ALL SLOGANS: *LFA JOMTIEN DECADE EFA MDG SDG EF POST-2015 MUSCAT AGREEMENT INCHEON DECLARATION,,,,,***
 - **THE NEW ONE BY THE DISRUPTIVE TECHNOLOGY FOR GLOBAL CONNECT BY 2030: *UN EDUCATION COMMISSION & SMART EDUCATION IN 2016, KOREA***